

## WALKER RIVER BASIN, WEST WALKER RIVER BASIN

## 10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35.64", long 119°31'13.11" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec. 33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050302, at outlet works of Topaz Lake on West Walker River, and 5.5 mi north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is above National Geodetic Vertical Datum of 1929. Prior to October 1, 1978, at datum 4.62 ft higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft, between elevations 4,967.68 ft (lowest practical elevation for diversion through tunnel) and 5,000.38 ft (3 ft below top of levee). Usable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District. [See schematic diagram of Walker River Basin.](#)

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft, July 3, 1980, July 10, 1995, elevation 5,000.92 ft, present datum; no usable contents at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,260 acre-ft, June 8, gage height, 86.69 ft; minimum contents, 2,340 acre-ft, September 28, 30, gage height, 73.82 ft.

## Capacity table, (elevation, in feet, and contents, in acre-feet)

4,968	490	4,980	19,760	4,995	47,540
4,970	3,580	4,985	28,310	5,000	58,570
4,975	11,520	4,990	37,360	5,001	60,870

RESERVOIR STORAGE, ACRE FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13,510	6,750	8,470	11,770	14,740	18,350	21,360	19,920	21,340	19,420	10,950	4,330
2	13,220	6,640	8,590	11,890	14,900	18,470	21,410	19,890	21,590	19,150	10,610	4,190
3	12,930	6,610	8,660	11,970	14,970	18,570	21,410	20,060	21,880	18,900	10,180	3,910
4	12,630	6,660	8,690	12,050	15,050	18,670	21,440	20,360	22,220	18,680	9,790	3,820
5	12,390	6,740	8,820	12,110	15,120	18,770	21,540	20,850	22,440	18,480	9,440	3,650
6	12,160	6,780	8,910	12,230	15,200	18,870	21,680	21,100	22,750	18,270	9,060	3,520
7	11,920	6,850	9,090	12,280	15,280	18,970	21,730	21,220	23,090	18,110	8,770	3,400
8	11,630	6,910	9,180	12,340	15,350	19,080	21,640	21,240	23,190	17,950	8,500	3,290
9	11,290	7,160	9,310	12,410	15,450	19,200	21,540	21,290	23,050	17,780	8,260	3,180
10	10,980	7,240	9,390	12,540	15,530	19,280	21,420	21,340	22,760	17,570	8,020	3,150
11	10,710	7,320	9,490	12,650	15,650	19,420	21,290	21,250	22,460	17,370	7,780	3,050
12	10,470	7,400	9,600	12,760	15,760	19,520	21,170	21,030	22,200	17,130	7,750	2,960
13	10,260	7,460	9,650	12,890	e15,910	19,590	21,120	20,810	22,080	16,870	7,510	2,900
14	10,050	7,540	9,890	12,990	e16,060	19,650	21,050	20,660	22,170	16,600	7,350	2,820
15	9,890	7,590	9,970	13,110	e16,210	19,770	20,870	20,610	22,360	16,400	7,230	2,790
16	9,760	7,640	10,000	13,200	e16,360	19,890	20,680	20,560	22,490	16,220	7,100	2,740
17	9,580	7,690	10,130	13,320	e16,500	19,970	20,530	20,540	22,540	15,990	6,970	2,710
18	9,490	7,770	10,230	13,420	16,600	20,040	20,390	20,490	22,540	15,710	6,820	2,650
19	9,310	7,850	10,400	13,530	16,740	20,210	20,290	20,440	22,440	15,450	6,660	2,510
20	9,220	7,860	10,480	13,690	16,890	20,390	20,060	20,410	22,300	15,120	6,550	2,510
21	9,090	7,910	10,580	13,790	17,030	20,650	19,960	20,330	22,100	14,820	6,500	2,500
22	8,940	7,960	10,630	13,870	17,170	20,900	19,840	20,220	21,810	14,530	6,360	2,500
23	8,820	8,040	10,790	13,970	17,330	21,080	19,720	20,060	21,590	14,230	6,150	2,480
24	8,590	8,120	10,850	14,040	17,470	21,150	19,600	19,970	21,340	13,900	6,030	2,480
25	8,310	8,130	11,110	14,130	17,750	21,140	19,540	19,920	21,100	13,580	5,870	2,470
26	8,040	8,180	11,210	14,250	17,900	21,070	19,600	19,840	20,870	13,190	5,600	2,450
27	7,780	8,270	11,270	14,330	18,000	20,970	19,840	19,740	20,580	12,800	5,400	2,430
28	7,480	8,350	11,300	14,410	18,110	20,980	20,120	20,220	20,280	12,440	5,220	2,400
29	7,230	8,390	11,450	14,510	18,230	21,030	20,190	20,710	19,970	12,100	5,080	2,430
30	6,930	8,500	11,580	14,590	---	21,140	20,090	20,880	19,700	11,690	4,910	2,420
31	6,880	---	11,680	14,660	---	21,250	---	21,100	---	11,350	4,740	---
MAX	13,510	8,500	11,680	14,660	18,230	21,250	21,730	21,340	23,190	19,420	10,950	4,330
MIN	6,880	6,610	8,470	11,770	14,740	18,350	19,540	19,740	19,700	11,350	4,740	2,400
#	4,972.10	4,973.12	4,975.10	4,976.93	4,979.09	4,980.89	4,980.20	4,980.80	4,979.97	4,974.90	4,970.74	4,969.25
##	-6,930	+1,620	+3,180	+2,980	+3,570	+3,020	-1,160	+1,010	-1,400	-8,350	-6,610	-2,320

CAL YR 2003 MAX 57,820 MIN 6,610 ## +1,280  
WTR YR 2004 MAX 23,190 MIN 2,400 ## -11,390

e Estimated

# Elevation, in feet above NGVD 1929, at end of month, present datum.

## Change in contents, in acre-feet.